


INFORMATION DISCLOSURE STATEMENT 	Atty. Docket No.: 290.0050 0101	Serial No.: 10/516,578
	Applicant(s): SANDERS et al.	Confirmation No.: 5513
	§ 371 Date: 16 November 2005 Int'l Filing Date: 4 June 2003	Group: 1648
	Information Disclosure Statement mailed: 21 November 2007	

U.S. PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
		4,912,030	03/27/1990	Weiss et al.			
		5,185,440	02/09/1993	Davis et al.			
		5,278,056	01/11/1994	Bank et al.			
		5,491,084	02/13/1996	Chalfie et al.			
		5,503,974	04/02/1996	Gruber et al.			
		5,512,421	04/30/1996	Burns et al.			
		5,591,624	01/07/1997	Barber et al.			
		5,681,746	10/28/1997	Bodner et al.			
		5,723,287	03/03/1998	Russell et al.			
		5,723,333	03/03/1998	Levine et al.			
		5,739,018	04/14/1998	Miyanohara et al.			
		5,747,243	05/05/1998	Gruber et al.			
		5,750,396	05/12/1998	Yang et al.			
		5,910,434	06/08/1999	Rigg et al.			
		6,306,434 B1	10/23/2001	Hong et al.			
		7,033,595 B1	04/25/2006	Sanders et al.			
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FOREIGN PATENT DOCUMENTS

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							Yes	No
	X	WO 00/08131 A2	02/17/2000	WIPO				
	X	WO 00/08131 A3	06/02/2000	WIPO				
	X	WO 01/83730 A2	11/08/2001	WIPO				

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	X	WO 01/83730 A3	05/23/2002	WIPO				
	X	WO 03/014367 A1	02/20/2003	WIPO				
	X	WO 03/035849 A2	05/01/2003	WIPO				
	X	WO 03/035849 A3	10/30/2003	WIPO				
	X	WO 03/102219 A2	12/11/2003	WIPO				
	X	WO 03/102219 A3	10/21/2004	WIPO				

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Copy Enclosed	Document Description
	X	American Type Culture Collection, "ATTC Number CRL-1573," organism: <i>Homo sapiens</i> (human); designation: 293 [HEK-293] [online]; Manassas, VA [retrieved on 2007-11-13] from the Internet. Retrieved from the Internet: < http://www.atcc.org/common/catalog/numSearch/numResults.cfm >; 4 pgs.
	X	American Type Culture Collection, "ATTC Number CRL-1658," organism: <i>Mus musculus</i> (mouse); designation: NIH/3T3 [online]; Manassas, VA [retrieved on 2007-11-13] from the Internet. Retrieved from the Internet: < http://www.atcc.org/common/catalog/numSearch/numResults.cfm >; 3 pgs.
	X	Ausubel et al., eds., <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, Inc., New York, NY, 1988; title page, publisher's page and table of contents (14 pages).
	X	Blanton et al., "Plasmid transfection and retroviral transduction of porcine muscle cells for cell-mediated gene transfer," 2000 <i>J. Anim. Sci.</i> 78(4):909-918.
	X	Boucher, "Status of gene therapy for cystic fibrosis lung disease" <i>J. Clin. Invest.</i> 1999;103:441-445.
	X	Chan et al. "Distinct mechanisms of entry by envelope glycoproteins of Marburg and Ebola (Zaire) viruses", <i>J. Virol</i> 2000;74(10):4933-4937.
	X	Chan et al. "Folate receptor-alpha is a cofactor for cellular entry by Marburg and Ebola viruses" <i>Cell</i> 2001;106:117-26

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	X	Coffin et al., <i>Retroviruses</i> . Cold Spring Harbor Laboratory Press: Plainview, NY; 2000. Online book [retrieved 2007-11-15]. Retrieved from the Internet: < http://www.ncbi.nlm.nih.gov/books/bv.fcgi?call=bv.View..ShowTOC&rid=rv.TO C&depth=10 >; Title and table of contents (5 pgs.).
	X	Crystal, "Transfer of genes to humans: early lessons and obstacles to success," 1995 <i>Science</i> 270:404-410.
	X	Delos et al. "Critical role for the cysteines flanking the internal fusion peptide of avian sarcoma/leukosis virus envelope glycoprotein" <i>J. Virol.</i> 2000;74:9738-9741.
	X	Deonarain "Ligand-targeted receptor-mediated vectors for gene delivery," 1998 <i>Exp. Opin. Ther. Patents</i> 8(1):53-69.
	X	Dobson, "Gene therapy progress and prospects: magnetic nanoparticle-based delivery," 2006 <i>Gene Ther.</i> 13(4):283-287.
	X	Dong et al., "A chimeric avian retrovirus containing the influenza virus hemagglutinin gene has an expanded host range," 1992 <i>J. Virol.</i> 66:7374-7382.
	X	"Ebola virus used in study: UI research may aid cystic fibrosis therapy" <i>Iowa City Press-Citizen</i> April 30, 2003; Retrieved from: http://www.press-citizen.com/news/043003ebola.htm . On May 2, 2003.
	X	Ellgaard et al., "Setting the standard: quality control in the secretory pathway," 1999 <i>Science</i> 286:1882-1888.
	X	Elroy-Stein et al. "Cap-independent translation of mRNA conferred by encephalomyocarditis virus 5' sequence improves the performance of the vaccinia virus/bacteriophage T7 hybrid expression system" <i>Proc Natl Acad Sci USA</i> 1989;86:6126-6130.
	X	Faragher et al. "Genome Sequences of a Mouse-Avirulent and a Mouse-Virulent Strain of Ross River Virus" <i>Virology</i> 1988;163(2):509-526.
	X	Fass et al., "Retrovirus envelope domain at 1.7 Angstrom resolution," 1996 <i>Nat. Struct. Bio.</i> 3:465-469.
	X	Feldmann et al., "Characterization of filoviruses based on differences in structure and antigenicity of the virion glycoprotein," 1994 <i>Virology</i> 199:469-473.

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	X	Feldmann et al., "The glycoproteins of Marburg and Ebola virus and their potential roles in pathogenesis," 1999 <i>Arch. Virol. Supp.</i> 15:159-169.
	X	Felkner et al. "Mutational analysis of the N-linked glycosylation sites of the SU envelope protein of Moloney murine leukemia virus" <i>J. Virol.</i> 1992;66:4258-4264.
	X	Ferry et al., "Liver-directed gene transfer vectors," 1998 <i>Hum. Gene Ther.</i> 9:1975-1981.
	X	Gallaher "Similar structural models of the transmembrane proteins of Ebola and avian sarcoma viruses," 1996 <i>Cell</i> 85:477-478.
	X	Grignani et al. "High-Efficiency Gene Transfer and Selection of Human Hematopoietic Progenitor Cells with a Hybrid EBV/Retroviral Vector Expressing the Green Fluorescence Protein", <i>Cancer Research</i> 1998;58:14-19.
	X	Hansen et al., "Prediction of O-glycosylation of mammalian proteins: specificity patterns of UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase," 1995 <i>Bioc. J.</i> 308:801-813.
	X	Hansen et al. "O-glycbase version 2.0 - A revised database of O-glycosylated proteins" <i>Nucleic Acids Research</i> 1997;25:278-282.
	X	Hansen et al. "NetOglyc: Prediction of mucin type O-glycosylation sites based on sequence context and surface accessibility" <i>Glycoconjugate Journal</i> 1998;15:115-130.
	X	Hatzioannou et al. "Incorporation of Fowl Plague Virus Hemagglutinin into Murine Leukemia Virus Particles of Analysis of the Infectivity of the Pseudotyped Retroviruses" <i>J. of Virology</i> 1998; 72:5313-5317.
	X	Ito et al., "Mutational analysis of the putative fusion domain of Ebola virus glycoprotein," 1999 <i>J. Virol</i> 73:8907-8912.
	X	Ito et al., "Ebola virus glycoprotein: proteolytic processing, acylation, cell tropism, and detection of neutralizing antibodies," 2001 <i>J. Virol</i> 75:1576-1580.
	X	Jeffers et al. "Covalent modifications of the ebola virus glycoprotein." <i>J. Virol.</i> 2002; 76(24):12463-72.
	X	Johnson et al. "Pseudotyped human lentiviral vector-mediated gene transfer to airway epithelia in vivo" <i>Gene Therapy</i> 2000;7:568-574.

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	X	Johnston et al. "Minimum Requirements for Efficient Transduction of Dividing and Nondividing Cells by Feline Immunodeficiency Virus Vector" <i>J. Virol.</i> 1999;73(6):4991-5000.
	X	Kang et al. "In vivo gene transfer using a nonprimate lentiviral vector pseudotyped with Ross River Virus glycoproteins." <i>J Virol.</i> 2002; 76(18):9378-88.
	X	Kayman et al. "Mutational analysis of N-linked glycosylation sites of Friend murine leukemia virus envelop protein" <i>J. Virol.</i> 1991;65:5323-5332.
	X	Kobinger et al. "Filovirus-psueodtyped lentiviral vector can efficiently and stably transduce airway epithelia in vivo" <i>Nat. Biotechnol.</i> 2001;19(3):225-30.
	X	Kuhn et al. "Infectious RNA Transcripts from Ross River Virus cDNA Clones and the Construction and Characterization of Defined Chimeras with Sindbis Virus" <i>Virology</i> 1991; 182:430-441.
	X	Kuhn et al. "Chimeric Sindbis-Ross River Viruses to Study Interactions Between Alphavirus Nonstructural and Structural Regions" <i>J. of Virology</i> 1996; 70(11):7900-7909.
	X	Li et al. "The critical N-linked glycan of murine leukemia virus envelope protein promotes both folding of the C-terminal domains of the precursor polyprotein and stability of the postcleavage envelope complex" <i>J. Virol.</i> 1997; 71:7012-7019.
	X	Lodge et al. "Two distinct oncornaviruses harbor an intracytoplasmic tyrosine-based basolateral targeting signal in their viral envelope glycoprotein." <i>J Virol.</i> 1997; 71(7):5696-702.
	X	Lopez et al. "Nucleocapsid-Glycoprotein Interactions Required for Assembly of Alphaviruses" <i>J. of Virology</i> 1994 68:1316-1323.
	X	Malashkevich et al., "Core structure of the envelope glycoprotein GP2 from Ebola virus at 1.9 A resolution," 1999 <i>PNAS</i> 96:2662-2667.
	X	Markowitz et al. "A safe packaging line for gene transfer: separating viral genes on two different plasmids." <i>J Virol.</i> 1988;62(4):1120-4.
	X	Marsh et al. "Virus entry into animal cells." in <i>Adv Virus Res Vol. 36.</i> Maramorosch et al. (Eds.). Academic Press: San Diego, CA. 1989. Title page, publishers page, and pp. 107-151.

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	X	McCray, Jr. "Difficulties of gene therapy" 2001 <i>The Lancet Supplement</i> 358-Cystic Fibrosis:S19.
	X	McCray, Jr. et al., "Development of Pseudotyped FIV-based Lentiviral Vectors for Efficient Gene Transfer to Airway Epithelia," 2 nd Annual Gene Therapy Symposium for Heart, Lung, and Blood Diseases", National Heart, Lung, and Blood Institute, Sonoma, California, November 20 and 21, 2003; 2 pgs.
	X	Medina et al. "Lentiviral Vectors Pseudotyped with Minimal Filovirus Envelopes Increased Gene Transfer in Murine Lung" <i>Molecular Therapy</i> 2003;8(5):777-789.
	X	Miller and Vile "Targeted vectors for gene therapy," 1995 <i>FASEB J.</i> 9(2):190-199.
	X	Morgenstern et al. "A series of mammalian expression vectors and characterisation of their expression of a reporter gene in stably and transiently transfected cells." <i>Nucleic Acids Res.</i> 1990;18(4):1068.
	X	Mosbys 2004 Drug Guide Mosbys, Inc: St. Louis, MO; 2004. Title page, publisher's page, and table of contents.
	X	National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health. GenBank Locus NC_001608, Accession No. NC_001608, "Lake Victoria marburgvirus – Musoke, complete genome," Bethesda, MD. Available online [retrieved 2007-11-13]. Retrieved from the Internet: < http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucore&id=158539108 >; 10 pgs.
	X	National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health. GenBank Locus NC_002549, Accession No. NC_002549, "Zaire ebolavirus, complete genome," Bethesda, MD. Available online [retrieved 2007-11-13]. Retrieved from the Internet: < http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucore&id=10313991 >; 13 pgs.

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	X	National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health. GenBank Locus EVU23069, Accession No. U23069, "Sudan Ebola virus Maleo strain glycoprotein (GP) gene, complete cds," Bethesda, MD. Available online [retrieved 2007-11-13]. Retrieved from the Internet: < http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucore&id=1041198 >; 3 pgs.
	X	National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health. GenBank Locus EVU23152, Accession No. U23152, "Reston Ebola virus glycoprotein (GP) gene, complete cds," Bethesda, MD. Available online [retrieved 2007-11-13]. Retrieved from the Internet: < http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucore&id=1041201 >; 3 pgs.
	X	National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus EVU23187, Accession No. U23187, "Zaire Ebola virus Mayinga strain glycorotein (GP) gene, compete cds." Bethesda, MD. Available online [retrieved 2003-02-08]. Retrieved from the Internet: < http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=nucleotide&list_uids=10 >; 3 pgs.
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	X	National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus MVREPCYC, Accession No. Z12132 GI: 541780, "Marburg virus genes for vp35, vp40, vp30 vp24, glycoprotein, nucleoprotein, polymerase," Bethesda, MD. Available online [retrieved 2003-02-08]. Retrieved from the Internet: < ">http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?cmd=&txt=&save=&cfm=&query_key=2&db=nucleotide&Extrafeat=-1&view+def&dispmax=20&SendTo=on&from=5822&_to8666&_Strand=,> >; 3 pgs.

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	X	Ory et al. "A Stable Human-Derived Packaging Cell Line for Production of High Titer Retrovirus/Vesicular Stomatitis Virus G Pseudotypes" <i>Proc. Nat'l. Acad. Sci USA</i> 1996;93:11400-11406.
	X	Pear et al. "Production of high-titer helper-free retroviruses by transient transfection" <i>Proc Natl Acad Sci USA</i> . 1993;90(18):8392-6.
	X	Pinter et al., "Localization of the labile disulfide bond between SU and TM of the murine leukemia virus envelope protein complex wtoa highly conserved CWLC motif in SU that resembles the active site sequence of thiol-disulfide exchange enzymes," 1997 <i>J. Virol.</i> 71:8073-8077.
	X	Pouton and Seymour, "Key issues in non-viral gene delivery," 2001 <i>Adv. Drug Deliv. Rev.</i> 46(1-3):187-203.
	X	Prasher et al. "Primary structure of the Aequorea victoria green-fluorescent protein." <i>Gene</i> . 1992;111(2):229-33.
	X	Read et al., "Barriers to gene delivery using synthetic vectors," 2005 <i>Adv. Genet.</i> 53PA:19-46.
	X	Riviere et al. "Effects of Retroviral Vector Design on Expression of Human Adenosine Deaminase in Murine Bone Marrow Transplant Recipients Engrafted with Genetically Modified Cells" <i>Proc. Nat'll Acade Sci. USA</i> 1995;92:6733-6737.
	X	Ruiz-Arguello et al., "Phosphatidylinositol-dependent membrane fusion induced by a putative fusogenic sequence of Ebola virus," 1998 <i>J. Virol.</i> 72:1775-1781.
	X	Sambrook et al. (Eds.) <i>Molecular Cloning, A Laboratory Manual</i> , Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 2000. Title page, publisher's page, and table of contents only; 18 pgs.
	X	Sanchez et al. "Sequence Analysis of the Ebola Virus Genome: Organization, Genetic Elements, and Comparison with the Genome of Marburg Virus" <i>Virus Research</i> 1993;29(3):215-240.

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	X	Sanchez et al. "The virion glycoproteins of Ebola viruses are encoded in two reading frames and are expressed through transcriptional editing" <i>Proc Natl. Acad. Sci USA</i> 1996;93:3602-3607.
	X	Sanchez et al. "Biochemical analysis of the secreted and virion glycoproteins of Ebola virus" <i>J. Virol.</i> 1998;72:6442-6447.
	X	Sanders, David. 5 th Annual American Society of Gene Therapy Meeting. June 5-9, 2002 in Boston, Massachusetts. Oral Presentation. June 6, 2002.
	X	Sanders, "No false start for novel pseudotyped vectors." <i>Curr Opin Biotechnol.</i> 2002; 13(5):437-42.
	X	Sanders. "Sulfhydryl involvement in fusion mechanisms" In H. Hilderson and S. Fuller (ed.), <i>Fusion of biological membranes and related problems</i> . Kluwer Academic/Plenum Publishers, New York.. 2000. Title page, table of contents, and pp. 483-514.
	X	Sanders et al., "Ebola virus glycoproteins: guidance devices for targeting gene therapy cevtors," 2004 <i>Expert Opin Biol. Ther.</i> 4(3):329-336.
	X	Sanes et al. "Use of a recombinant retrovirus to study post-implantation cell lineage in mouse embryos." <i>EMBO J.</i> 1986;5(12):3133-42.
	X	Scheetz et al. "Genomics based approaches to gene discovery in innate immunity." <i>Immunol Rev.</i> 2002; 190:137-45.
	X	Sharkey et al. "Ross River Virus Glycoprotein-Pseudotyped Retroviruses and Stable Cell Lines for Their Production" 2001 <i>J. Virol.</i> 75(6):2653-2659.
	X	Sharma et al. "Efficient Infection of a Human T-Cell Line and of Human Primary Peripheral Blood Leukocytes with a Pseudotyped Retrovirus Vector" <i>Proc. Nat'l Acad. Sci. USA</i> 1996 ;93(21):11842-11847.
	X	Shinnick et al. "Nucleotide sequence of Moloney murine leukaemia virus." 1981 <i>Nature</i> 293(5833):543-548.

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	X	Sinn et al., "Folate Receptor Alpha-Dependent and Independent Pathways for Entry of Filovirus Glycoprotein Pseudotyped Feline Immunodeficiency Virus (FIV)-Based Vectors Into Human Airway Epithelia", Abstract No. 208. The Sixteenth Annual North American Cystic Fibrosis Conference, The Cystic Fibrosis Foundation, New Orleans, Louisiana, October 3-6, 2002; 2 pgs.
	X	Sinn et al. "Lentivirus Vectors Pseudotyped with Filoviral Envelope Glycoproteins Transduce Airway Epithelia from the Apical Surface Independently of Folate Receptor Alpha" <i>J. of Virology</i> 2003;77(10): 5902-5910.
	X	Sinn et al., "Pseudotyping FIV-based lentiviral vectors: Three glycoproteins that confer apical entry to airway epithelia," 2 nd Annual Gene Therapy Symposium for Heart, Lung, and Blood Diseases", National Heart, Lung, and Blood Institute, Sonoma, California, November 20 and 21, 2003; 2 pgs.
	X	Sinn et al., "Targeting Apical Entry in Airway Epithelia Using Pseudotyped FIV-Based Lentiviral Vectors," The Seventeenth Annual North American Cystic Fibrosis Conference. Abstract No. 212, The Cystic Fibrosis Foundation, Anaheim, California, October 16-19, 2003; 2 pgs.
	X	Smith et al. "Putative receptor binding sites on alphaviruses as visualized by cryoelectron microscopy." <i>Proc Natl Acad Sci USA</i> . 1995;92(23):10648-52.
	X	Strauss et al. "The alphaviruses: gene expression, replication, and evolution." <i>Microbiol Rev</i> . 1994;58(3):491-562.
	X	Swift et al. "Rapid production of retroviruses for efficient gene delivery to mammalian cells using 293T Cell-Based systems," In R. Cico (ed.), <i>Current Protocols in Immunology</i> suppl. 31. J. Wiley & Sons: Hoboken, NJ; 1999. Title page, publishers page and pp. 10.17.14-10.17.29.
	X	Taggart et al. "A Putative Role of Elastolytic Cathepsins in the Diminution of the Antimicrobial Defenses in Cystic Fibrosis Abstract No. 287. The Seventeenth Annual North American Cystic Fibrosis Conference. The Cystic Fibrosis Foundation, Anaheim, California, October 16-19, 2003; 2 pgs.
	X	Takada et al. "A System for Functional Analysis of Ebola Virus Glycoprotein" <i>Proc. Nat'l Acad. Sci. USA</i> 1997; 94:14764-14769.

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	X	Taylor and Sanders, "The role of the membrane-spanning-domain sequence in glycoprotein-mediated membrane fusion," 1999 <i>Mol. Biol. Cell</i> 10:2803-2815.
	X	Taylor et al. "Fv-4: identification of the defect in Env and the mechanism of resistance to ecotropic murine leukemia virus." <i>J Virol.</i> 2001;75(22):11244-8.
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<p>*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

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Examiner Initial	Copy Enclosed	Document Description
	X	Wang et al. "Feline immunodeficiency virus vectors persistently transduce nondividing airway epithelia and correct the cystic fibrosis defect" 1999 <i>J. Clin. Invest.</i> 104;R55-62.
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